(FILE 'HOME' ENTERED AT 15:59:11 ON 10 FEB 2004)

FILE 'BIOSIS' ENTERED AT 15:59:30 ON 10 FEB 2004

L1 34575 S (INSULIN LIKE GROWTH FACTOR) OR IGF OR (INSULIN GROWTH FACTOR

L2 42660 S TRANSFORMING GROWTH FACTOR OR TGF

L3 75721 S SPERM OR SEMEN OR SPEMATOZOA OR SEMINAL

L4 3 S L1 AND L2 AND L3

L5 160025 S OOCYTE OR EMBRYO

L6 102 S L1 AND L2 AND L5

L7 31541 S OOCYTE

L8 24 S L7 AND L1 AND L2

L9 21798 S TRANSFERRIN OR TRANSFERIN

L10 139 S L9 AND L3

L11 4580 S SEMINAL PLASMA

L12 51 S L11 AND L9

L13 870539 S CONCENTRATION OR AMOUNT

L14 23 S L13 AND L12

L15 32628 S INOSITOL

L16 21 S L15 AND L11

L17 26562 S FRUCTOSE

L18 5 S L17 AND L16

(FILE 'HOME' ENTERED AT 17:03:20 ON 10 FEB 2004)

FILE 'BIOSIS' ENTERED AT 17:03:32 ON 10 FEB 2004

L1 23639 S INSULIN GROWTH FACTOR OR IGF
L2 4580 S SEMINAL PLASMA
L3 47 S L2 AND L1
L4 870539 S AMOUNT OR CONCENTRATION
L5 10 S L4 AND L3

L Number	Hits	Search Text	DB	Time stamp
1	390	ni-jian.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/10 10:19
2	66	gentz-reiner.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/10 10:19
3	192	yu-guo-liang.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/10 10:19
4	86	dillon-patrick-j.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/10 10:20
5	1769	chemotactic same cytokine	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/10 10:20
6	209	chemotactic same cytokine same human same polypeptide	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/10 10:21

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 NEWS  2           "Ask CAS" for self-help around the clock
 NEWS  3  SEP 09   CA/CAplus records now contain indexing from 1907 to the
                   present
 NEWS  4  DEC 08   INPADOC: Legal Status data reloaded
 NEWS  5  SEP 29   DISSABS now available on STN
 NEWS  6  OCT 10   PCTFULL: Two new display fields added
 NEWS  7  OCT 21   BIOSIS file reloaded and enhanced
 NEWS  8  OCT 28   BIOSIS file segment of TOXCENTER reloaded and enhanced
 NEWS  9  NOV 24   MSDS-CCOHS file reloaded
 NEWS 10  DEC 08   CABA reloaded with left truncation
 NEWS 11  DEC 08   IMS file names changed
 NEWS 12  DEC 09   Experimental property data collected by CAS now available
                   in REGISTRY
 NEWS 13  DEC 09   STN Entry Date available for display in REGISTRY and CA/CAplus
 NEWS 14  DEC 17   DGENE: Two new display fields added
 NEWS 15  DEC 18   BIOTECHNO no longer updated
 NEWS 16  DEC 19   CROPU no longer updated; subscriber discount no longer
                   available
 NEWS 17  DEC 22   Additional INPI reactions and pre-1907 documents added to CAS
                   databases
 NEWS 18  DEC 22   IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
 NEWS 19  DEC 22   ABI-INFORM now available on STN
 NEWS 20  JAN 27   Source of Registration (SR) information in REGISTRY updated
                   and searchable
 NEWS 21  JAN 27   A new search aid, the Company Name Thesaurus, available in
                   CA/CAplus
 NEWS 22  FEB 05   German (DE) application and patent publication number format
                   changes

 NEWS EXPRESS  DECEMBER 28 CURRENT WINDOWS VERSION IS V7.00, CURRENT
               MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
               AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
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                                                           ENTRY    SESSION
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=> s ni jian /au
L1          557 NI JIAN

=> s gentz reiner /au
L2          192 GENTZ REINER

=> s yu guo-liang
L3            0 YU GUO-LIANG

=> s yu guo-liang /au
L4          204 YU GUO-LIANG

=> s dillon patrick j /au
L5           93 DILLON PATRICK J

=> s chemotactic (s) cytokine (s) polypeptide (s) human
L6           29 CHEMOTACTIC (S) CYTOKINE (S) POLYPEPTIDE (S) HUMAN

=> dup rem l6
PROCESSING COMPLETED FOR L6
L7           25 DUP REM L6 (4 DUPLICATES REMOVED)

=> s (chemotactic (a) cytokine) (s) polypeptide (s) human
L8           12 (CHEMOTACTIC (A) CYTOKINE) (S) POLYPEPTIDE (S) HUMAN

=> dup rem l8
PROCESSING COMPLETED FOR L8
L9            8 DUP REM L8 (4 DUPLICATES REMOVED)

=> d l9 total ibib kwic

L9   ANSWER 1 OF 8  BIOSIS  COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
     DUPLICATE 1
ACCESSION NUMBER:    2002:423727  BIOSIS
DOCUMENT NUMBER:     PREV200200423727
TITLE:               Polynucleotides encoding chemokine alpha-3.
AUTHOR(S):           Ni, Jian [Inventor]; Li, Haodong [Inventor]; Su, Jeffrey
                     [Inventor, Reprint author]
CORPORATE SOURCE:    Gaithersburg, MD, USA
                     ASSIGNEE: Human Genome Sciences, Inc.
PATENT INFORMATION:  US 6410268 June 25, 2002
SOURCE:              Official Gazette of the United States Patent and Trademark
```

Office Patents, (June 25, 2002) Vol. 1259, No. 4.
http://www.uspto.gov/web/menu/patdata.html. e-file.
CODEN: OGUPE7. ISSN: 0098-1133.
DOCUMENT TYPE: Patent
LANGUAGE: English
ENTRY DATE: Entered STN: 7 Aug 2002
Last Updated on STN: 7 Aug 2002

AB **Human** chemokine Alpha-3 **polypeptides** and DNA (RNA) encoding such **chemotactic cytokines** and a procedure for producing such **polypeptides** by recombinant techniques is disclosed. Also disclosed are methods for utilizing such chemotactic cytokines for the treatment of leukemia, tumors,. . .

L9 ANSWER 2 OF 8 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2003:53358 BIOSIS
DOCUMENT NUMBER: PREV200300053358
TITLE: Chemokine alpha 2.
AUTHOR(S): Ni, Jian [Inventor, Reprint Author]; Gentz, Reiner L. [Inventor]; Su, Jeffrey Y. [Inventor]; Li, Haodong [Inventor]
CORPORATE SOURCE: Gaithersburg, MD, USA
ASSIGNEE: Human Genome Sciences, Inc.
PATENT INFORMATION: US 6479633 November 12, 2002
SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (Nov 12 2002) Vol. 1264, No. 2.
http://www.uspto.gov/web/menu/patdata.html. e-file.
ISSN: 0098-1133 (ISSN print).
DOCUMENT TYPE: Patent
LANGUAGE: English
ENTRY DATE: Entered STN: 22 Jan 2003
Last Updated on STN: 22 Jan 2003

AB **Human** chemokine Alpha-2 **polypeptides** and DNA (RNA) encoding such **chemotactic cytokines** and a procedure for producing such **polypeptides** by recombinant techniques is disclosed. Also disclosed are methods for utilizing such chemotactic cytokines for the treatment of leukemia, tumors,. . .

L9 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1997:640786 CAPLUS
DOCUMENT NUMBER: 127:277253
TITLE: Chemokine alpha 3
INVENTOR(S): Ni, Jian; Li, Haodong; Su, Jeffrey Y.
PATENT ASSIGNEE(S): Human Genome Sciences, Inc., USA; Ni, Jian; Li, Haodong; Su, Jeffrey Y.
SOURCE: PCT Int. Appl., 68 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9735027	A1	19970925	WO 1996-US3686	19960318
W: AM, AU, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KG, KP, KR, KZ, LT, LV, MD, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, UA, US, UZ, VN				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2249995	AA	19970925	CA 1996-2249995	19960318
AU 9654254	A1	19971010	AU 1996-54254	19960318
EP 904398	A1	19990331	EP 1996-911336	19960318
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2000506366	T2	20000530	JP 1997-515324	19960318

PRIORITY APPLN. INFO.: WO 1996-US3686 A 19960318

AB **Human** chemokine α3 **polypeptides** and DNA (RNA) encoding such **chemotactic cytokines** and a procedure for producing such **polypeptides** by recombinant techniques is disclosed. Also disclosed are methods for utilizing such chemotactic cytokines for the treatment of leukemia, tumors, chronic infections, auto-immune disease, fibrotic disorders, sepsis, wound healing and psoriasis and to stimulate stem cell mobilization. Antagonists against such chemotactic cytokines and their use as a therapeutic to treat rheumatoid arthritis, auto-immune and chronic and acute inflammatory and infective diseases, allergic reactions, prostaglandin-independent fever, ARDS, and bone marrow failure are also disclosed. Also disclosed are diagnostic assays for detecting diseases related to mutations in the nucleic acid sequences and altered concns. of the polypeptides. Also disclosed are diagnostic assays for detecting mutations in the polynucleotides encoding the chemotactic cytokines and for detecting altered levels of the polypeptide in a host.

L9 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1997:618207 CAPLUS
DOCUMENT NUMBER: 127:261786
TITLE: Chemotactic cytokine III
INVENTOR(S): Ni, Jian; Yu, Guo-Liang; Gentz, Reiner L.
PATENT ASSIGNEE(S): Human Genome Sciences, Inc., USA; Ni, Jian; Yu, Guo-Liang; Gentz, Reiner L.
SOURCE: PCT Int. Appl., 73 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9732993	A1	19970912	WO 1996-US2985	19960305
W: AM, AT, AU, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KG, KP, KR, KZ, LT, LV, MD, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, UA, UG, US, UZ, VN				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9655234	A1	19970922	AU 1996-55234	19960305

PRIORITY APPLN. INFO.: WO 1996-US2985 19960305

AB **Human chemotactic cytokine** III **polypeptides** and DNA (RNA) encoding such **chemotactic cytokines** and a procedure for producing such **polypeptides** by recombinant techniques is disclosed. Also disclosed are methods for utilizing such chemotactic cytokines for the treatment of leukemia, tumors, chronic infections, auto-immune disease, fibrotic disorders, wound healing and psoriasis. Antagonists against such chemotactic cytokines and their use as a therapeutic to treat rheumatoid arthritis, auto-immune and chronic and acute inflammatory and infective diseases, allergic reactions, prostaglandin-independent fever, cerebral ischemia, glomerulonephritis, HTLV-1 related diseases and bone marrow failure are also disclosed. Also disclosed are diagnostic assays for detecting diseases related to mutations in the nucleic acid sequences and altered concns. of the polypeptides. Also disclosed are diagnostic assays for detecting mutations in the polynucleotides encoding chemotactic cytokine III and for detecting altered levels of the polypeptide in a host.

L9 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1997:506502 CAPLUS
DOCUMENT NUMBER: 127:108056
TITLE: Human chemotactic cytokine I
INVENTOR(S): Ni, Jian; Yu, Guo-Liang; Alfonso, Pedro; Gentz, Reiner; Su, Jeffrey Y.

PATENT ASSIGNEE(S): Human Genome Sciences, Inc., USA
SOURCE: PCT Int. Appl., 64 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9723640	A1	19970703	WO 1995-US16871	19951226
W: AU, CA, CN, JP, KR, MX, NZ				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9654143	A1	19970717	AU 1996-54143	19951226

PRIORITY APPLN. INFO.: WO 1995-US16871 19951226

AB **Human chemotactic cytokine** I **polypeptides** and DNA (RNA) encoding such **chemotactic cytokines** and a procedure for producing such **polypeptides** by recombinant techniques is disclosed. Also disclosed are methods for utilizing such chemotactic cytokines for the treatment of leukemia, tumors, chronic infections, auto-immune disease, fibrotic disorders, wound healing and psoriasis. Antagonists against such chemotactic cytokines and their use as a therapeutic to treat rheumatoid arthritis, auto-immune and chronic and acute inflammatory and infective diseases, allergic reactions, prostaglandin-independent fever and bone marrow failure are also disclosed. Also disclosed are diagnostic assays for detecting diseases related to mutations in the nucleic acid sequences and altered concns. of the polypeptides. Also disclosed are diagnostic assays for detecting mutations in the polynucleotides encoding the chemotactic cytokines and for detecting altered levels of the polypeptide in a host.

L9 ANSWER 6 OF 8 EMBASE
on STN
ACCESSION NUMBER: 94002927 EMBASE
DOCUMENT NUMBER: 1994002927
TITLE: Production of IL-8 and monocyte chemotactic peptide-1 by peripheral blood monocytes: Disparate responses to phytohemagglutinin and lipopolysaccharide.
AUTHOR: Liebler J.M.; Kunkel S.L.; Burdick M.D.; Standiford T.J.; Rolfe M.W.; Strieter R.M.
CORPORATE SOURCE: Pulmonary/Critical Care Med. Div., Oregon Health Sciences University, 3181 S. W. Sam Jackson Park Road,Portland, OR 97201-3098, United States
SOURCE: Journal of Immunology, (1994) 152/1 (241-249).
ISSN: 0022-1767 CODEN: JOIMA3
COUNTRY: United States
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 005 General Pathology and Pathological Anatomy
026 Immunology, Serology and Transplantation
LANGUAGE: English
SUMMARY LANGUAGE: English

AB . . . a site of inflammation is dependent on a complex interplay of a number of soluble mediators. Recently, two families of **chemotactic cytokines** have been discovered. The -C-X-C- family, which includes IL-8, appears to recruit neutrophils and lymphocytes. In contrast, the -C-C- family,. . . of inflammation, could further amplify the immune response by secreting IL-8 and MCP-1. We sought to define conditions under which **human** peripheral blood monocytes produce IL-8 and MCP-1. Using serum-free media, we found that PHA-stimulated monocytes expressed MCP-1 and IL-8 protein. . . pathways of activation exist for the production of monocyte-derived IL-8 and MCP-1. The differential expression of these different but related **polypeptides** may offer a means of control of the type of immune cells that are recruited to a site of inflammation.

L9 ANSWER 7 OF 8 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN

ACCESSION NUMBER: 94073694 EMBASE
DOCUMENT NUMBER: 1994073694
TITLE: Tubular-derived growth factors and cytokines in the pathogenesis of tubulointerstitial fibrosis: Implications for human renal disease progression.
AUTHOR: Ong A.C.M.; Fine L.G.
CORPORATE SOURCE: Department of Medicine, Rayne Institute, Univ. College London Medical School, 5 University St,London WC1E 6JJ, United Kingdom
SOURCE: American Journal of Kidney Diseases, (1994) 23/2 (205-209). ISSN: 0272-6386 CODEN: AJKDDP
COUNTRY: United States
DOCUMENT TYPE: Journal; Conference Article
FILE SEGMENT: 005 General Pathology and Pathological Anatomy
026 Immunology, Serology and Transplantation
028 Urology and Nephrology
LANGUAGE: English
SUMMARY LANGUAGE: English

AB Detailed histomorphometric analysis of **human** biopsy tissue over the last 30 years has convincingly demonstrated that preservation of the tubulointerstitial compartment of the kidney is the major determinant of renal outcome in a variety of **human** renal diseases. Nevertheless, the pathophysiology of tubulointerstitial disease remains obscure. In particular, the primary role of tubular injury has not. . . is now accumulating evidence that apart from their many transport functions, tubular cells also secrete an array of cytokines, including **chemotactic cytokines**, **polypeptide** growth factors, and vasoactive peptides. Three paracrine growth systems acting at different levels in the kidney are described as examples. . . precede tubular injury, it is tubular injury that sets into motion the irreversible process of tubulointerstitial fibrosis characteristic of progressive **human** renal disease, leading to secondary loss of glomerular function.

L9 ANSWER 8 OF 8 MEDLINE on STN DUPLICATE 2

ACCESSION NUMBER: 92001945 MEDLINE
DOCUMENT NUMBER: 92001945 PubMed ID: 1911703
TITLE: Expression of monocyte chemotactic protein and interleukin-8 by cytokine-activated human vascular smooth muscle cells.
AUTHOR: Wang J M; Sica A; Peri G; Walter S; Padura I M; Libby P; Ceska M; Lindley I; Colotta F; Mantovani A
CORPORATE SOURCE: Istituto di Ricerche Farmacologiche Mario Negri, Milan, Italy.
SOURCE: ARTERIOSCLEROSIS AND THROMBOSIS, (1991 Sep-Oct) 11 (5) 1166-74.
Journal code: 9101388. ISSN: 1049-8834.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199110
ENTRY DATE: Entered STN: 19920124
Last Updated on STN: 19920124
Entered Medline: 19911025

AB The present study was designed to investigate the capacity of **human** vascular smooth muscle cells (SMCs) to produce a **cytokine chemotactic** for monocytes (monocyte chemotactic protein [MCP]) and by way of comparison, a related **polypeptide** activator of neutrophils (known as interleukin-8 [IL-8] or neutrophil activating protein-1 [NAP-1]. On exposure to IL-1, SMCs released high

levels. . . .